aiwa

COMPACT DISC STEREO SYSTEM
SISTEMA ESTEREO CON REPRODUCTOR DE DISCOS COMPACTOS
CHAINE STEREO AVEC LECTEUR DE DISQUES COMPACTS

NSX-V8000

OPERATING INSTRUCTIONS
MANUAL DE INSTRUCCIONES
MODE D'EMPLOI

En (English)

E (Español)

F (Français)

For Assistance And Information

Call Toll Free 1-800-BUY-AIWA

(U.S.A. Only)

COMPACT disc DIGITAL AUDIO

-NF5-904-018
30130AKY-U

U

1751

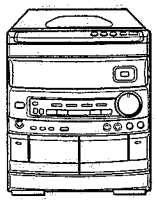
ENGLISH

Welcome to the Aiwa Stereo System

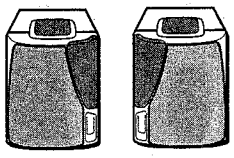
Congratulations on your purchase of an Aiwa Stereo System. To optimize the performance of this system, please take the time to read through these Operating instructions and become familiar with the operating procedures.

Check your system and accessories

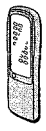
CX-NV8000 Compact disc stereo cassette receiver



SX-ANV8000 (L, R) Front speakers

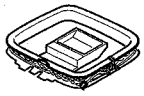


Remote control



FM antenna

AM antenna



Operating Instructions, etc.

Owner's record

For your convenience, record the model number and serial number (you will find them on the rear of your set) in the space provided below. Please refer to them when you contact your Aiwa dealer in case of difficulty.

Model No.	Serial No. (Lot No.)
CX-NV8000	
SX-ANV8000	

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WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

"CAUTION:TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL."

Explanation of Graphical Symbols:

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

PRECAUTIONS

Read the Operating Instructions carefully and completely before operating the unit. Be sure to keep the Operating Instructions for future reference. All warnings and cautions in the Operating Instructions and on the unit should be strictly followed, as well as the safety suggestions below.

Installation

1 **Water and moisture** — Do not use this unit near water, such as near a bathtub, washbowl, swimming pool, or the like.
2 **Heat** — Do not use this unit near sources of heat, including heating vents, stoves, or other appliances that generate heat. It also should not be placed in temperatures less than 5°C (41°F) or greater than 35°C (95°F).
3 **Mounting surface** — Place the unit on a flat, even surface.
4 **Ventilation** — The unit should be situated with adequate space around it so that proper heat ventilation is assured. Allow 10 cm (4 in.) clearance from the rear and the top of the unit, and 5 cm (2 in.) from each side.
- Do not place the unit on a bed, rug, or similar surface that may block the ventilation openings.
- Do not install the unit in a bookcase, cabinet, or airtight rack where ventilation may be impeded.

5 **Objects and liquid entry** — Take care that objects or liquids do not get inside the unit through the ventilation openings.
6 **Carts and stands** — When placed or mounted on a stand or cart, the unit should be moved with care.
Quick stops, excessive force, and uneven surfaces may cause the unit or cart to overturn or fall.

7 **Condensation** — Moisture may form on the CD pickup lens when:
- The unit is moved from a cold spot to a warm spot
- The heating system has just been turned on
- The unit is used in a very humid room
- The unit is cooled by an air conditioner

When this unit has condensation inside, it may not function normally. Should this occur, leave the unit for a few hours, then try to operate again.
8 **Wall or ceiling mounting** — The unit should not be mounted on a wall or ceiling, unless specified in the Operating Instructions.

Electric Power

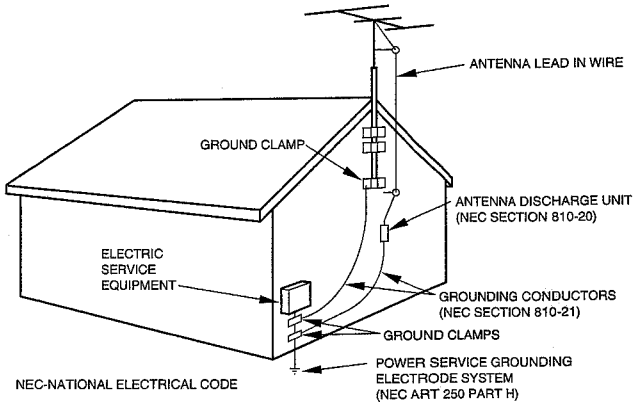
1 **Power sources** — Connect this unit only to power sources specified in the Operating Instructions, and as marked on the unit.
2 **Polarization** — As a safety feature, some units are equipped with polarized AC power plugs which can only be inserted one way into a power outlet. If it is difficult or impossible to insert the AC power plug into an outlet, turn the plug over and try again. If it still does not easily insert into the outlet, please call a qualified service technician to service or replace the outlet. To avoid defeating the safety feature of the polarized plug, do not force it into a power outlet.
3 **AC power cord**
- When disconnecting the AC power cord, pull it out by the AC power plug. Do not pull the cord itself.
- Never handle the AC power plug with wet hands, as this could result in fire or shock.
- Power cords should be routed to avoid being severely bent, pinched, or walked upon. Pay particular attention to the cord from the unit to the power socket.
- Avoid overloading AC power plugs and extension cords beyond their capacity, as this could result in fire or shock.

4 **Extension cord** — To help prevent electric shock, do not use a polarized AC power plug with an extension cord, receptacle, or other outlet unless the polarized plug can be completely inserted to prevent exposure of the blades of the plug.
5 **When not in use** — Unplug the AC power cord from the AC power plug if the unit will not be used for several months or more. When the cord is plugged in, a small amount of current continues to flow to the unit, even when the power is turned off.

Outdoor Antenna

1 **Power lines** — When connecting an outdoor antenna, make sure it is located away from power lines.
2 **Outdoor antenna grounding** — Be sure the antenna system is properly grounded to provide protection against unexpected voltage surges or static electricity build-up. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information on proper grounding of the mast, supporting structure, and the lead-in wire to the antenna discharge unit, as well as the size of the grounding unit, connection to grounding terminals, and requirements for grounding terminals themselves.

Antenna Grounding According to the National Electrical Code



Maintenance

Clean the unit only as recommended in the Operating Instructions.

Damage Requiring Service

Have the units serviced by a qualified service technician if:
- The AC power cord or plug has been damaged
- Foreign objects or liquid have gotten inside the unit
- The unit has been exposed to rain or water
- The unit does not seem to operate normally
- The unit exhibits a marked change in performance
- The unit has been dropped, or the cabinet has been damaged

DO NOT ATTEMPT TO SERVICE THE UNIT YOURSELF.

CONNECTIONS

Before connecting the AC cord

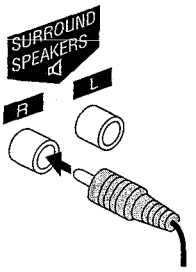
The rated voltage of your unit shown on the rear panel is 120 V AC. Check that the rated voltage matches your local voltage.

IMPORTANT

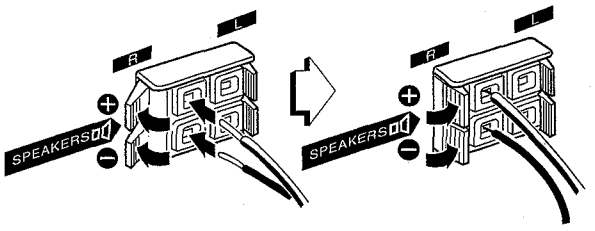
- Connect the speakers, antennas, and all optional equipment first. Then connect the AC cord in the end.
- The front speaker marked R on the rear is the right speaker, and the marked L is the left speaker.

1 Connect the right speaker to the main unit.

① Connect the surround speaker cord to the SURROUND SPEAKERS R terminal.



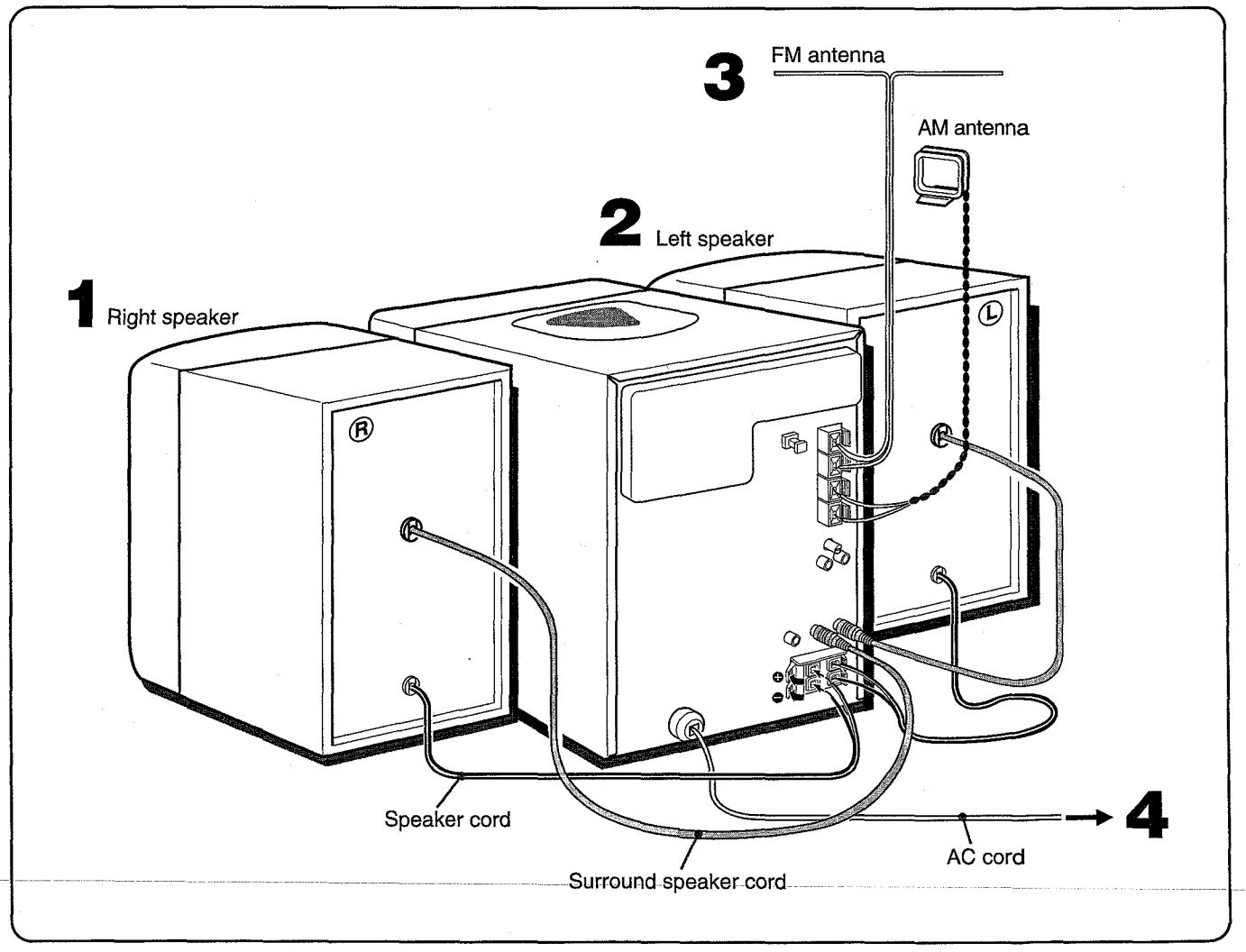
② Connect the speaker cord to the SPEAKERS R terminals.



The speaker cord with the white stripe should be connected to the ⊕ terminal and the black cord to the ⊖ terminal.

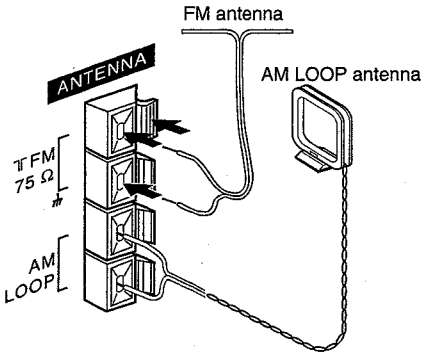
2 Connect the left speaker to the main unit.

Connect the surround speaker cord to the SURROUND SPEAKERS L terminal, and speaker cord to the SPEAKERS L terminals in the same manner as step 1.



3 Connect the supplied antennas.

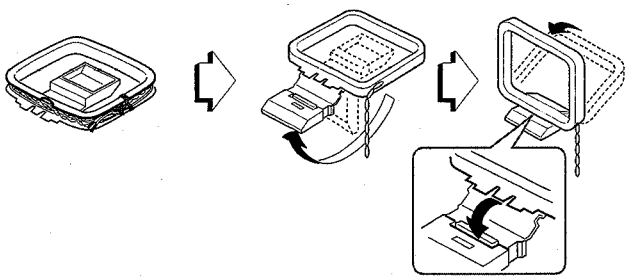
Connect the FM antenna to the FM 75 Ω terminals and the AM antenna to the AM LOOP terminals.



4 Connect the AC cord to an AC outlet.

To stand the AM antenna on a surface

Fix the claw to the slot.



To position the antennas

FM feeder antenna:

Extend this antenna horizontally in a T-shape and fix its ends to the wall.

AM loop antenna:

Position to find the best direction.

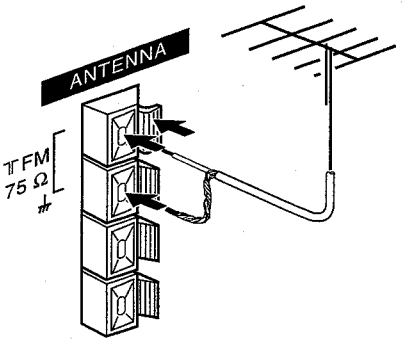
NOTE

- Be sure to connect the speaker cords correctly. Improper connections can cause short circuits in the SPEAKERS terminals.
- Do not leave objects generating magnetism near the speakers.
- Do not bring the FM antenna near metal objects or curtain rails.
- Do not bring the AM antenna near other optional equipment, the stereo system itself, the AC cord or speaker cords, since noise will be picked up.
- Do not unwind the AM antenna wire.

CONNECTING AN OUTDOOR ANTENNA

For better FM reception, use of an outdoor antenna is recommended.

Connect the outdoor antenna to the FM 75 Ω terminals.

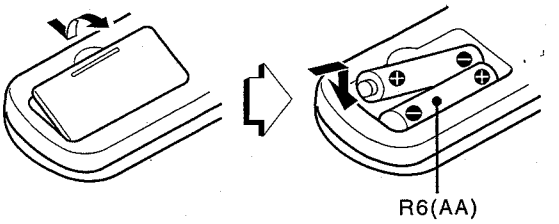


To connect other optional equipment → page 20.

REMOTE CONTROL

Inserting batteries

Detach the battery cover on the rear of the remote control and insert two R6 (size AA) batteries.



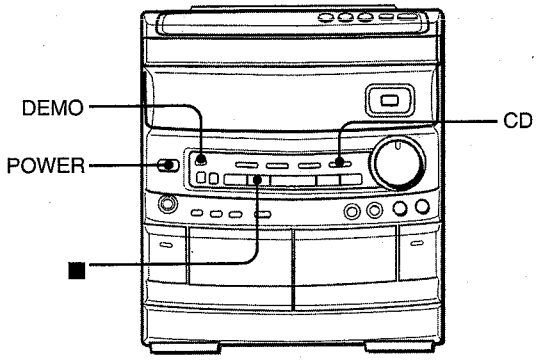
When to replace the batteries

The maximum operational distance between the remote control and the sensor on the main unit should be approximately 5 meters (16 feet). When this distance decreases, replace the batteries with new ones.

NOTE

- If the unit is not going to be used for an extended period of time, remove the batteries to prevent possible electrolyte leakage.
- The remote control may not operate correctly when:
  - The line of sight between the remote control and the remote sensor inside the display window is exposed to intense light, such as direct sunlight
  - Other remote controls are used nearby (television, etc.)

BEFORE OPERATION



To turn the unit on
Press one of the function buttons (TAPE, TUNER, VIDEO/AUX, CD).
Playback of the inserted disc or tape begins, or the previously tuned station is received (Direct Play Function).
The POWER button is also available.
The disc compartment may open and close to reset the unit.

DEMO (Demonstration) mode
When the AC cord is connected for the first time, the display window demonstrates the functions of the unit. When the power is turned on, the DEMO display is overridden by the operation display. When the power is turned off, the DEMO mode is restored.

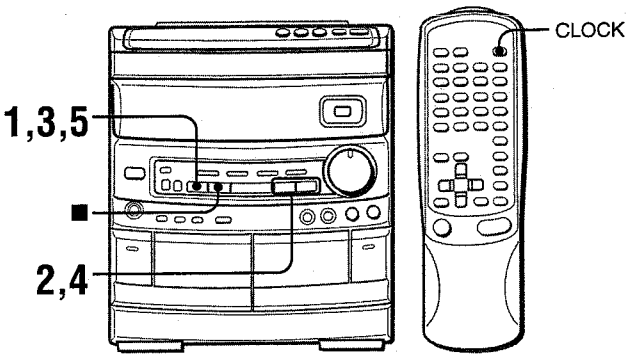
To cancel DEMO mode
Press the DEMO button. To reenter, press again.

Illumination guides
Whenever the AC cord is connected or one of the function buttons is pressed, the buttons for that operation light up or flash.
Example: When the AC cord is connected, the ▮▮ SET button flashes as a guide to setting the current time.

Flash windows
The windows on the top of the unit and the cassette decks light up or flash while the unit is being powered on.
To turn off the light of the top window, press the ■ button while pressing the CD button. To turn back on, repeat the above.
To turn off the light of the cassette decks, press the ■ button while pressing the TAPE button. To turn back on, repeat the above.

After use
Press the POWER button to turn off the power. The display changes to the clock.

SETTING THE CLOCK



When the AC cord is connected for the first time, the ▮▮ SET button flashes.
Set the time as follows while the power is off.

1 **Press the ▮▮ SET button.**
The hour flashes.

2 **Press the ⏮ DOWN or ⏭ UP button to designate the hour.**

3 **Press the ▮▮ SET button to set the hour.**
The hour stops flashing and the minute starts flashing.

4 **Press the ⏮ DOWN or ⏭ UP button to designate the minute.**

5 **Press the ▮▮ SET button to set the minute and complete setting.**
The minute stops flashing on the display and the clock starts from 00 second.

To correct the current time
Press the POWER button to turn the unit off. Press the ▮▮ SET button and carry out steps 1 to 5 above.

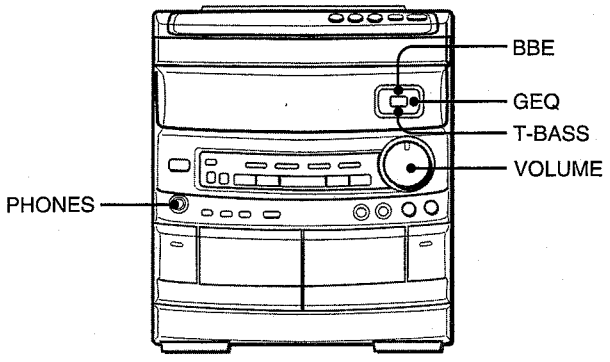
To display the current time
Press the CLOCK button on the remote control. The clock is displayed for 4 seconds.
However, the time cannot be displayed during recording.

To switch to the 24-hour standard
Press the CLOCK button on the remote control and then press the ■ button within 4 seconds.
Repeat the same procedure to restore the 12-hour standard.

If the clock display flashes while the power is off
This is caused by a power interruption. The current time needs to be reset.
If power is interrupted for more than approximately 24 hours, all settings stored in memory after purchase need to be reset.

ADJUSTING THE SOUND

Your speakers feature the Front 180° system with uni-directional speakers and built-in surround speakers pointed inward at angles of 45°. You can get an optimal stereo effect not only directly in front of the speakers but also when off the center line between the speakers.



VOLUME CONTROL

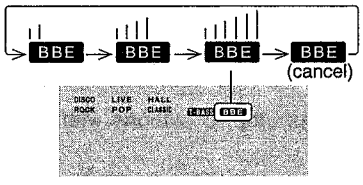
Turn the VOLUME control on the main unit, or press the VOLUME buttons on the remote control.

BBE SYSTEM

The BBE system enhances the clarity of high-frequency sound. It also enriches the KARAOKE function to make your voice sound clear and pleasant.

Press the BBE button.

Each time it is pressed, the level changes. Select one of the three levels, or the off position to suit your preference.

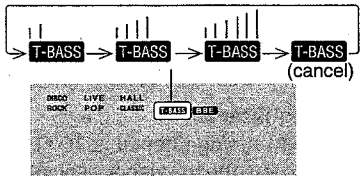


SUPER T-BASS SYSTEM

The T-BASS system enhances the realism of low-frequency sound.

Press the T-BASS button.

Each time it is pressed, the level changes. Select one of the three levels, or the off position to suit your preference.



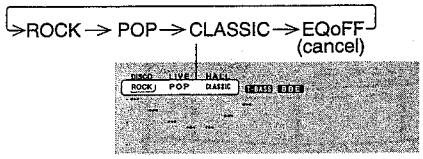
NOTE

Low frequency sound may be distorted when the T-BASS system is used for a disc or tape in which low frequency sound is originally emphasized. In this case, cancel the T-BASS system.

GRAPHIC EQUALIZER

This unit provides the following three different equalization curves.
ROCK: Powerful sound emphasizing treble and bass
POP: More presence in the vocals and midrange
CLASSIC: Enriched sound with heavy bass and fine treble

Press the GEQ button repeatedly until the desired equalization curve is displayed.



SOUND ADJUSTMENT DURING RECORDING

The output volume and tone (except BBE) of the speakers or headphones may be freely varied without affecting the level of the recording.

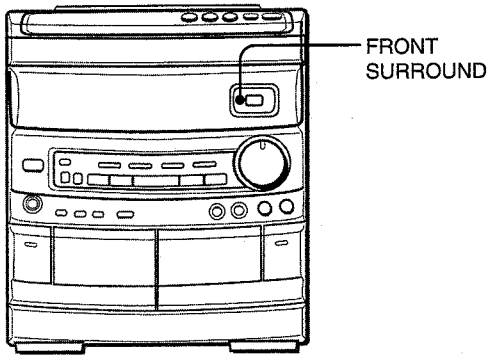
Recording with BBE

The desired source can be recorded with the BBE function to enhance the clarity of high-frequency sound. When playing back a tape recorded with BBE, it is recommended that BBE be set to off.

Using the headphones

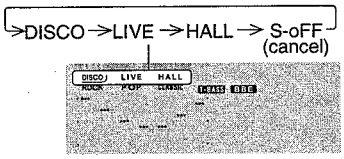
Connect headphones to the PHONES jack with a stereo standard plug (ø6.3 mm, 1/4 inch).
No sound is output from the speakers while the headphones are plugged in.

FRONT SURROUND SYSTEM



The front surround system uses a DSP (Digital Signal Processor) to enhance the simulated surround sound effect for your listening pleasure. When you select the FRONT SURROUND mode, the sound presence of a disco (DISCO), live music performance (LIVE), or concert hall (HALL) can be obtained.
In addition, the front surround speakers are located inside the cabinet of your speaker system and are directed inward to provide an effective simulated surround sound effect without having to connect optional surround speakers.

Press the FRONT SURROUND button repeatedly until the desired FRONT SURROUND mode is displayed.



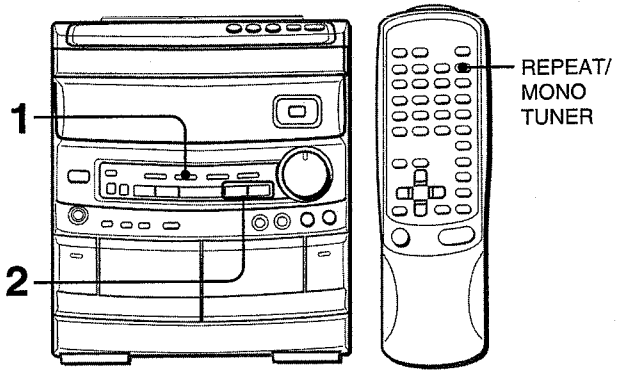
Equalization curves are selected automatically to match the FRONT SURROUND modes and can also be selected or turned off to suit your preference.

When the music source is monaural
Select LIVE to obtain a simulated stereo effect. When DISCO or HALL is selected, no sound will be heard from the surround speakers.

To cancel the selected mode
Press the selected button again. S-oFF is displayed.
While FRONT SURROUND mode is off, no sound is heard from the surround speakers.

NOTE
When a connected microphone is used, the FRONT SURROUND system is automatically canceled.

MANUAL TUNING



***1* Press the TUNER/BAND button repeatedly to select the desired band.**

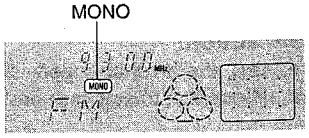
FM → AM

If the power is turned off, the previously tuned station will be played (Direct Play Function).

***2* Press the I◀◀ DOWN or ▶▶I UP button to select a station.**
Each time the button is pressed, the frequency changes.
When a station is received, "TUNE" is displayed for 2 seconds.
During FM stereo reception, ((◎)) is displayed.

To search for a station quickly (Auto Search)
Keep the I◀◀ DOWN or ▶▶I UP button pressed until the tuner starts searching for a station. After tuning in to a station, the search stops.
To stop the Auto Search manually, press the I◀◀ DOWN or ▶▶I UP button.
- The Auto Search may not stop at stations with very weak signals.

When an FM stereo broadcast contains noise
Press the REPEAT/MONO TUNER button on the remote control so that "MONO" appears on the display.
Noise is reduced, although reception is monaural.

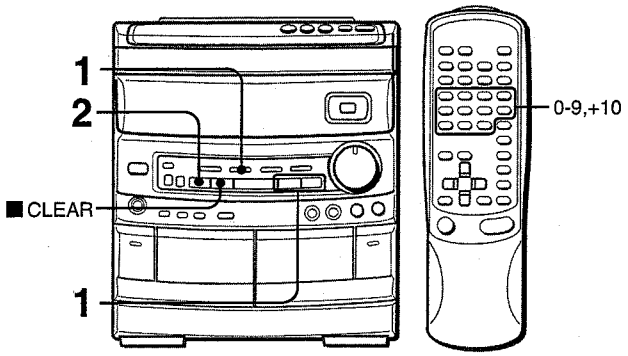


To restore stereo reception, press the button so that MONO disappears.

To change the AM tuning interval
The default setting of the AM tuning interval is 10 kHz/step. If you use this unit in an area where the frequency allocation system is 9 kHz/step, change the tuning interval.
Press the POWER button while pressing the TUNER/BAND button.
To reset the interval, repeat this procedure.

NOTE
When the AM tuning interval is changed, all preset stations (see "PRESETTING STATIONS") are cleared. The preset stations have to be set again.

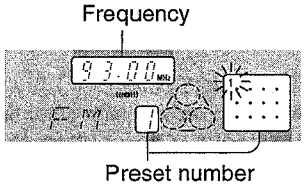
PRESETTING STATIONS



The unit can store a total of 32 preset stations. When a station is stored, a preset number is assigned to the station. Use the preset number to tune in to a preset station directly.

1 **Press the TUNER/BAND button to select a band, and press the I◀◀ DOWN or ▶▶I UP button to select a station.**

2 **Press the ▮▮ SET button to store the station.**
A station is assigned a preset number, beginning from 1 in consecutive order for each band.



3 **Repeat steps 1 and 2.**
The next station will not be stored if a total of 32 preset stations have already been stored for all the bands.

PRESET NUMBER TUNING

Use the remote control to select the preset number directly.

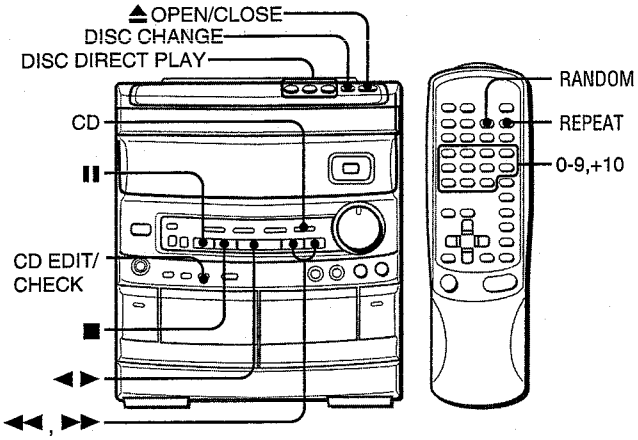
1 **Press the TUNER/BAND button to select a band.**

2 **Press the numeric buttons to select a preset number.**
Example:
To select preset number 25, press the +10, +10 and 5 buttons.
To select preset number 10, press the +10 and 0 buttons.

Selecting a preset number on the main unit
Press the TUNER/BAND button to select a band. Then, press the ◀▶ DIRECTION/PRESET button repeatedly.
Each time the button is pressed, the next highest number is selected.

To clear a preset station
Select the preset number of the station to be cleared. Then, press the ■ CLEAR button, and press the ▮▮ SET button within 4 seconds.
The preset numbers of all other stations in the band with higher numbers are also decreased by one.

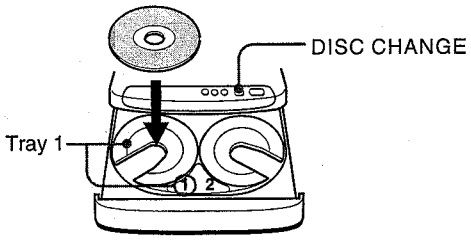
BASIC OPERATIONS

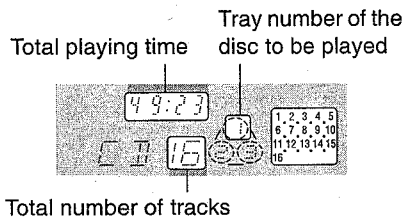


LOADING DISCS

Press the CD button, then press the ⏏ OPEN/CLOSE button to open the disc compartment. Load disc(s) with the label side up.

To play one or two discs, place the discs on tray 1 and 2.
To play three discs, press the DISC CHANGE button to rotate the trays after placing two discs. Place the third disc on tray 3. Close the disc compartment by pressing the ⏏ OPEN/CLOSE button.



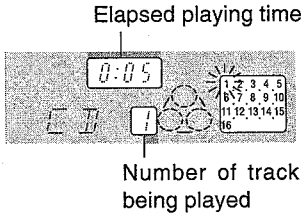


PLAYING DISCS

Load discs.

To play all discs in the disc compartment, press the ◄► button.

Play begins with the disc on tray 1.



To play one disc only, press one of the DISC DIRECT PLAY buttons.

The selected disc is played once.

To stop play, press the ■ button.
To pause play, press the II button. To resume play, press again.
To search for a particular point during playback, keep the ◄◄ or ►► button pressed and release the button at the desired point.
To skip to the beginning of a track during playback, press the ◄◄ or ►► button repeatedly.
To remove discs, press the ⏏ OPEN/CLOSE button.

To start play when the power is off (Direct Play Function)

Press the CD button. The power is turned on and play of the loaded disc(s) begins.
To replace discs before play, press the ⏏ OPEN/CLOSE button to open the disc compartment.

To check the remaining time

Press the CD EDIT/CHECK button during play. The amount of time remaining until all tracks finish playing is displayed. To restore the play time display, repeat the above again.

Selecting a track with the remote control

1 Press one of the DISC DIRECT PLAY buttons to select a disc.
2 Press the numeric buttons and the +10 button to select a track.
Example:
To select the 25th track, press the +10, +10 and 5 buttons.
To select the 10th track, press the +10 and 0 buttons.
The selected track starts to play and continues to the end of that disc.

Replacing discs during play

While one disc is playing, the other discs can be replaced without interrupting play.
1 Press the DISC CHANGE button.
2 Remove the discs and replace with other discs.
3 Press the ⏏ OPEN/CLOSE button to close the disc compartment.

NOTE

- When loading an 8-cm (3-inch) disc, put it onto the inner circle of the tray.
- Do not place more than one compact disc on one disc tray.
- Do not tilt the unit with discs loaded. Doing so may cause malfunctions.

RANDOM PLAY

All the tracks on the selected disc or on all the discs can be played randomly.

Press the RANDOM button on the remote control.

RANDOM lights up on the display.

To cancel random play, press again.

NOTE

- Even if the ◄◄ button is pressed, a previously played track cannot be skipped. The unit returns to the beginning of the current track only.
- Direct selection of the tracks with the numeric buttons is not possible.

REPEAT PLAY

A single disc or all the discs can be played repeatedly.

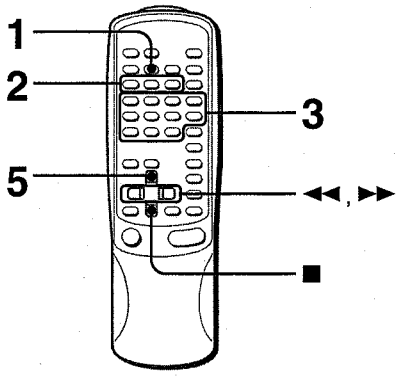
Press the REPEAT button on the remote control.

⊂ lights up on the display.

To cancel repeat play, press again.

PROGRAMMED PLAY

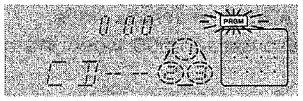
Up to 30 tracks can be programmed from any of the inserted discs.



Use the remote control.

***1* Press the PRGM button twice in stop mode.**

The PRGM indicator flashes on the display.



- When the PRGM button is pressed once in step 1, the unit enters the KARAOKE PROGRAMS (page 18).

***2* Press one of the DISC DIRECT PLAY buttons to select a disc.**

The selected disc is indicated in red on the display.

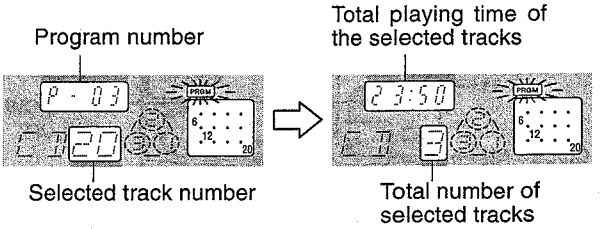
Go to the next step when the tray stops rotating.

***3* Press the numeric buttons and the +10 button to program a track.**

Example:

To select the 25th track, press the +10, +10 and 5 buttons.

To select the 10th track, press the +10 and 0 buttons.



***4* Repeat steps 2 and 3 to program other tracks.**

***5* Press the ◄► button to start play.**

To check the program

Each time the ◄◄ or ►► button is pressed in stop mode, a disc number, track number, and program number will be displayed.

To clear the program

Press the ■ CLEAR button in stop mode.

To add tracks to the program

Before playing, repeat steps 2 and 3. The track will be programmed after the last track.

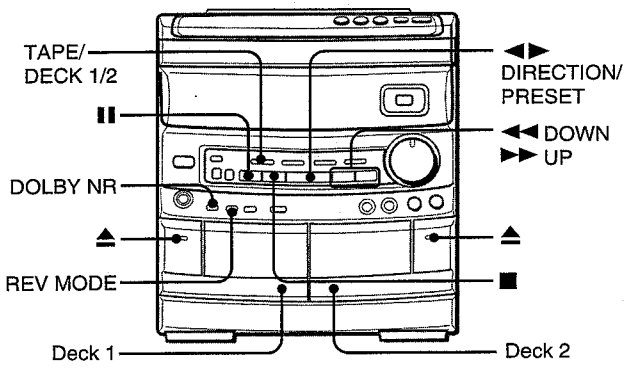
To change the programmed tracks

Clear the program and repeat all the steps again.

NOTE

During the programmed play, the CD EDIT/CHECK, DISC CHANGE, RANDOM, DISC DIRECT PLAY and numeric buttons do not function.

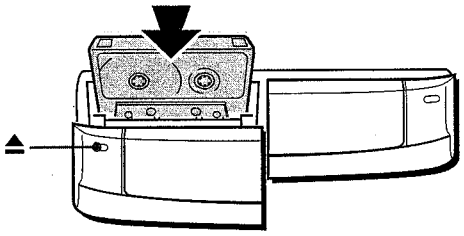
BASIC OPERATIONS



INSERTING TAPES

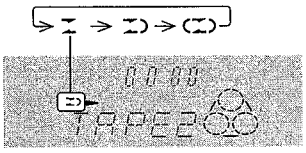
- On deck 1, tapes are always played back on both sides. On deck 2, you can select a reverse mode to play back one or both sides.
- Use Type I (normal), Type II (high/CrO_2) or Type IV (metal) tapes for playback.

Press the TAPE button and press the ⏏ EJECT mark to open the cassette holder.



Insert a tape with the exposed side down. Push the cassette holder to close.

To select a reverse mode (deck 2 only)
Each time the REV MODE button is pressed, the reverse mode changes.



To play one side only, turn on ⇄.
To play from front side to back side once only, turn on ⇉.
To play both sides repeatedly, turn on (⇄).
- When tapes are loaded in both decks, ⇉ in the display indicates Continuous Play.

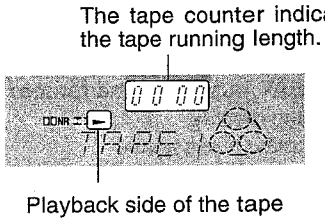
PLAYING BACK A TAPE

Insert a tape.

***1* Press the DOLBY NR button and turn Dolby NR on or off to match the playback tape.**

For tapes recorded with DOLBY NR, turn on DD NR.
For tapes recorded without DOLBY NR, turn off DD NR.

***2* Press the ◀▶ button to start play.**



▷: The front side is being played (forward).
◁: The back side is being played (reverse).

When tapes are loaded in both decks
Press the TAPE button first to select a deck.
The selected deck number is displayed.

To stop play, press the ■ button.
To pause play (deck 2 only), press the II button. To resume play, press again.
To change the playback side, press the ◀▶ DIRECTION/ PRESET button in play or pause mode.
To fast forward or rewind, press the ◀◀ or ▶▶ button in stop mode. Then press the ■ button to stop the tape.

To start play when the power is off (Direct Play Function)
Press the TAPE button. The power is turned on and play of the inserted tape begins.

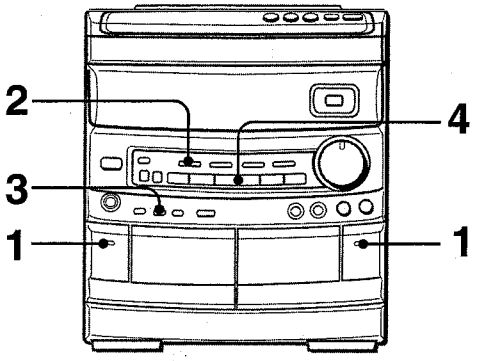
To set the tape counter to 0000
Press the ■ CLEAR button in stop mode.
The counter is also set to 0000 when the cassette holder is opened.

MUSIC SENSOR

If there is a 4-second or longer blank between each track, a search for the beginning of the current or next track during playback can be done easily.
When the ▶ indicator of the ◀▶ button is flashing, press the ▶▶ button to move to the next track or the ◀◀ button to move to the beginning of the current track.
When the ◀ indicator of the ◀▶ button is flashing, press the ◀◀ button to move to the next track, or the ▶▶ button to move to the beginning of the current track.

The search function uses a music sensor that may not be able to detect tracks for tapes with:
- Blanks of less than 4 seconds between tracks
- Noisy blanks
- Long passages of low-end sound
- Low overall recording levels

CONTINUOUS PLAY



After playback on one deck finishes, the tape in the other deck will start to play without interruption.

1 **Insert tapes into deck 1 and deck 2.**

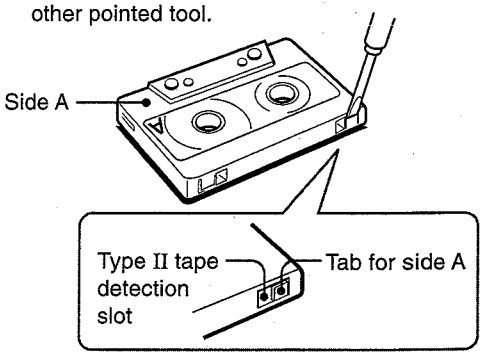
2 **Press the TAPE/DECK1/2 button to select the deck to be played back first.**

3 **Press the REV MODE button to select ⇄.**

4 **Press the ◄► button to start playback.**
Playback continues until the ■ button is pressed.

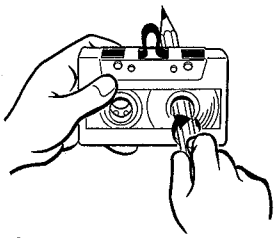
About cassette tapes

- **To prevent accidental erasure,** break off the plastic tabs on the cassette tape after recording with a screwdriver or other pointed tool.



To record on the tape again, cover the tab openings with adhesive tape, etc. (On Type II tapes, take care not to cover the Type II tape detection slot.)

- **120-minute or longer tapes** are extremely thin and easily deformed or damaged. They are not recommended.
- **Take up any slack in** the tape with a pencil or similar tool before use. Slack tape may break or jam in the mechanism.

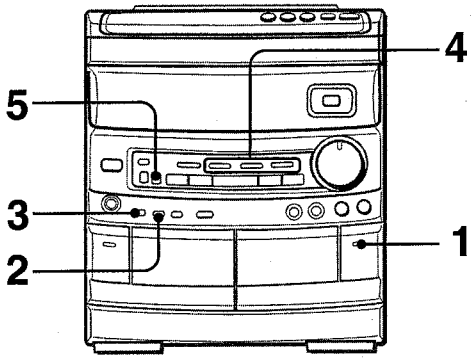


DOLBY NR system

The Dolby Noise Reduction system reduces tape hiss noise. For optimum performance when playing back a tape recorded with the DOLBY NR system, turn on the DOLBY NR system.

BASIC RECORDING

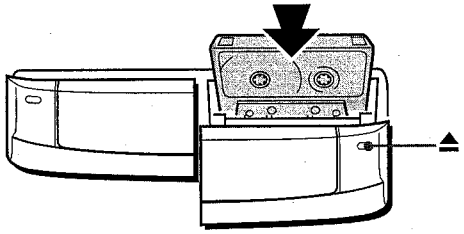
This section explains how to record from the tuner, CD player, or external equipment.



Preparation
- Set the tape to the point where recording will start.
- Use Type I (normal) and Type II (high/CrO_2) tapes for recording.

1 Insert the tape to be recorded on into deck 2.

Insert the tape with the side to be recorded on first facing out from the unit and the exposed side down.



2 Press the REV MODE button to select the reverse mode.

To record on one side only, turn on ⇄.
To record on both sides, turn on ⇄ or (⇄).

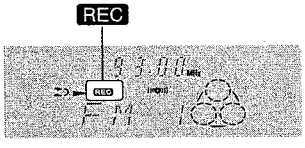
3 Press the DOLBY NR button to turn Dolby NR on or off.

To record with DOLBY NR, turn on DOLBY NR.
To record without DOLBY NR, turn off DOLBY NR.

4 Press one of the function buttons and prepare the source to be recorded.

To record from a CD, press the CD button and load the disc(s).
To record from a radio broadcast, press the TUNER button and tune in to a station.
To record from the connected source, press the VIDEO/AUX button and play.

5 Press the ● REC/REC MUTE button to start recording.



When the selected function is CD, playback and recording start simultaneously.

To stop recording, press the ■ button.
To pause recording, press the ❚❚ button. (Applicable when the source is TUNER, VIDEO/AUX.) To resume recording, press again.

To start recording with the remote control
First press the ●/O REC/REC MUTE button, and then press the ◄► button within 2 seconds.

INSERTING BLANK SPACES

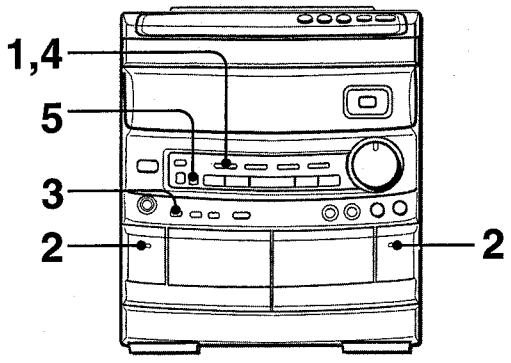
Insertion of 4-second blank spaces enables activation of the Music Sensor function. (Applicable when the source is TUNER or VIDEO/AUX.)

1 **Press the ● REC/REC MUTE button during recording or while in recording pause mode.**
REC on the display flashes for 4 seconds and the tape runs without recording. After 4 seconds, the deck enters the recording pause mode.
2 **Press the ❚❚ button to resume recording.**

To insert a blank space of less than 4 seconds, press the ● REC/REC MUTE button again while REC is flashing.
To insert blank spaces of more than 4 seconds, after the deck enters recording pause mode, press the ● REC/REC MUTE button again. Each time the button is pressed, a 4-second blank space is added.

To erase a recording
Make sure the microphone is not connected to this unit.
1 Insert the tape to be erased into deck 2 and press the TAPE/DECK 1/2 button to display "TAPE 2".
2 Set the tape to the point where the erasure is to be started.
3 Set the reverse mode by pressing the REV MODE button.
4 Press the ● REC/REC MUTE button to start the erasure.

DUBBING A TAPE MANUALLY



Preparation
- Set the tape to the point where recording will start.
- The reverse mode is automatically set to ⇄.
  Note that recording will be done on one side of the tape only.

1 **Press the TAPE button.**

2 **Insert the original tape into deck 1 and the tape to be recorded on into deck 2.**
Insert the tapes with the sides to be played back or recorded on first facing out from the unit.

3 **Press the DOLBY NR button to turn off the Dolby NR.**
DOLBY NR on the display goes out.

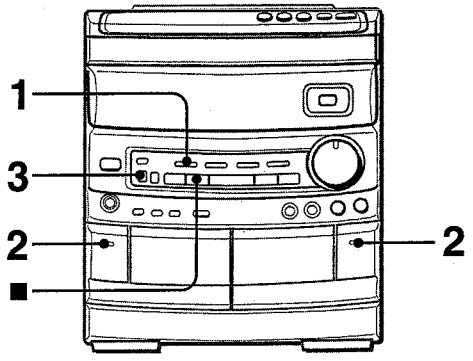
4 **Press the TAPE/DECK 1/2 button to select deck 1.**
TAPE 1 is displayed.

5 **Press the ● REC/REC MUTE button to start recording.**
Playing and recording start simultaneously.

To stop dubbing
Press the ■ button.

To set the Dolby NR when playing back the dubbed tape
Press the DOLBY NR button and turn Dolby NR on or off to match the original tape.

DUBBING THE WHOLE TAPE



This function allows you to make exact copies of both sides of the original tape. The reverse side of both tapes will start simultaneously as soon as the longer tape has been reversed.

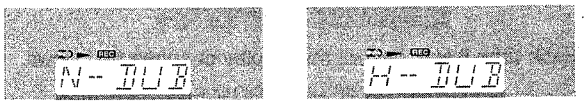
NOTE
- Dubbing does not start from a point halfway in the tape.
- The reverse mode is automatically set to ⇉.
- The Dolby NR does not affect recording.

1 **Press the TAPE button.**

2 **Insert the original tape into deck 1 and the tape to be recorded on into deck 2.**
Insert each tape with the side to be played back or recorded on first facing out from the unit.

3 **Press the SYNC DUB button once or twice to start recording.**
① **For recording at normal speed,** press it once to display N-DUB.
② **For recording at high speed,** press it twice to display H-DUB.

① ②



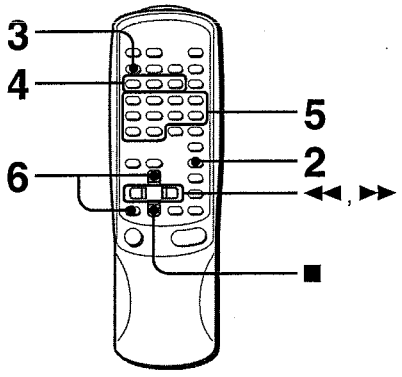
The tapes are rewound to the beginning of the front sides, and recording starts.

To stop dubbing
Press the ■ button.

To set the Dolby NR when playing back the dubbed tape
Press the DOLBY NR button and turn Dolby NR on or off to match the original tape.

NOTE
- Recording does not start if the erasure prevention tab on either side of the tape is broken off.
- If the leader segment of the tape to be recorded on is longer than that of the original tape, recording on the reverse side may stop midway through the recording. In this case, dub each side manually following the procedure in "DUBBING A TAPE MANUALLY".

AI EDIT RECORDING



The AI edit function enables CD recording without worrying about tape length and track length. When a CD is inserted, the unit automatically calculates track lengths. If necessary, the order of tracks is rearranged so that no track is cut short.
(AI: Artificial Intelligence)

NOTE

AI edit recording will not start from a point halfway into the tape. The tape must be recorded from the beginning of either side.

Use the remote control from steps 3 to 6.

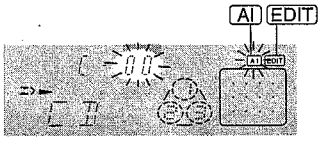
***1* Insert the tape into deck 2, and press the DOLBY NR button to turn Dolby NR on or off.**

Insert the tape with the side to be recorded on first facing out from the unit.

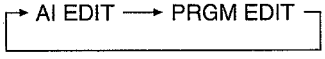
***2* Press the CD button and load the disc(s).**

***3* Press the EDIT/CHECK button once.**

"EDIT" lights up and "AI" flashes on the display.



Each time it is pressed, the display changes as follows.

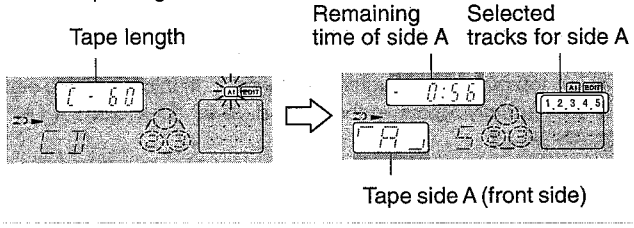


***4* Press one of the DISC DIRECT PLAY buttons to select a disc.**

***5* Press the numeric buttons to designate the tape length.**

10 to 99 minutes can be specified.
Example: When using a 60-minute tape, press the 6 and 0 buttons.
In a few seconds, the microcomputer determines the tracks to be recorded on each side of the tape.

- The ◄◄ and ►► buttons are also available to designate the tape length.



***6* First press the ●/O REC/REC MUTE button and then press the ◄► button within 2 seconds to start recording.**

The tape is rewound to the beginning of the front side, the lead segment is played through for 10 seconds, and recording starts. When recording on the front (side A) ends, recording on the back (side B) starts.

To stop recording

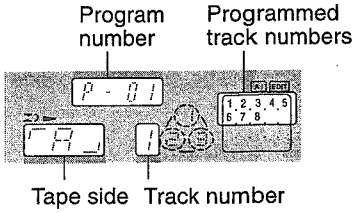
Press the ■ button. Recording and CD play stop simultaneously.

To clear the edit program

Press the ■ CLEAR button twice so that "EDIT" disappears on the display.

To check the order of the programmed track numbers

Before recording, press the EDIT/CHECK to select side A or B, and press the ◄◄ or ►► button repeatedly.



To add tracks from other discs to the edit program

If there is any time remaining on the tape after step 5, you can add tracks from other discs in the CD compartment .

1 Press the EDIT/CHECK button to select side A or B.
2 Press one of the DISC DIRECT PLAY buttons to select a disc.
3 Press the numeric buttons to select tracks.
AI goes out and PRGM starts flashing on the display.
A track which has a playing time longer than the remaining time cannot be programmed.
4 Repeat steps 2 and 3 to add more tracks.

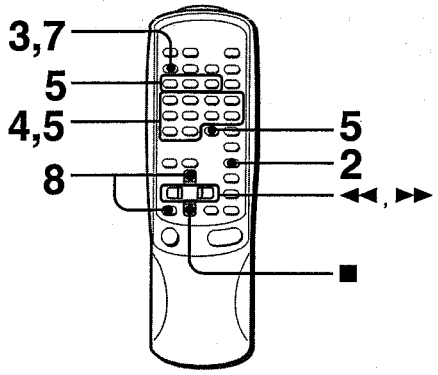
Time on cassette tapes and editing time

The actual cassette recording time is usually a little longer than the specified recording time printed on the label. This unit can program tracks to use the extra time. When the total recording time is a little longer than the tape's specified recording time after editing, the display shows the extra time (without a minus mark), instead of the time remaining on the tape (with the minus mark).

NOTE

- Recording is inhibited if the erasure prevention tab on either side of the tape is broken off.
- The AI edit function cannot be used with discs containing 31 tracks or more.

PROGRAMMED EDIT RECORDING



Programmed edit function enables CD recording while checking the remaining time on each side of the tape as the tracks are programmed.

NOTE

The programmed edit recording will not start from a point halfway in the tape. The tape must be recorded from the beginning of either side.

Use the remote control from steps 3 to 8.

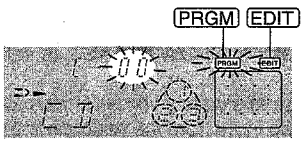
1 **Insert the tape into deck 2, and press the DOLBY NR button to turn Dolby NR on or off.**

Insert the tape with the side to be recorded on first facing out from the unit.

2 **Press the CD button and load the disc(s).**

3 **Press the EDIT/CHECK button twice.**

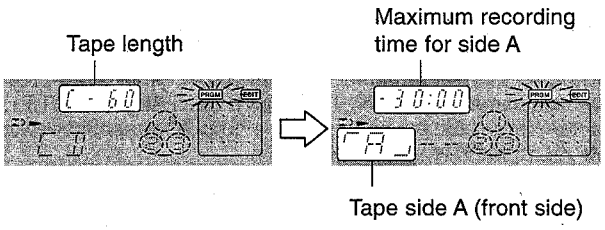
"EDIT" lights up and "PRGM" flashes on the display.



4 **Press the numeric buttons to designate the tape length.**

10 to 99 minutes can be specified.

Example: When using a 60-minute tape, press the 6 and 0 buttons.

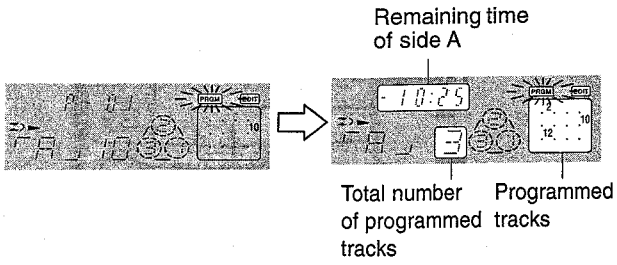


5 **Press one of the DISC DIRECT PLAY buttons to select a disc and press the numeric buttons to program a track.**

Example: To select the 10th track of disc 2, press DISC DIRECT PLAY 2 and the numeric buttons +10 and 0.

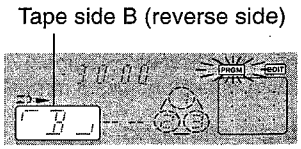
6 **Repeat step 5 for the rest of the tracks for side A.**

A track whose playing time is longer than the remaining time cannot be programmed.



7 **Press the EDIT/CHECK button to select side B and program the tracks for side B.**

After confirming B on the display, repeat step 5.



8 **Press the ●/○ REC/REC MUTE button and then press the ◀▶ button within 2 seconds to start recording.**

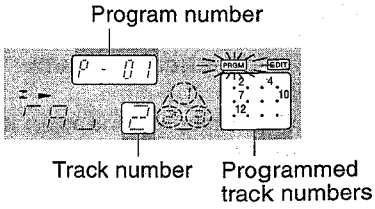
The tape is rewound to the beginning of the front side, the lead segment is played through for 10 seconds, and recording starts. When recording on the front side (A) ends, recording on the back side (B) starts.

To stop recording

Press the ■ button. Recording and CD play stop simultaneously.

To check the order of the programmed track numbers

Before recording, press the EDIT/CHECK button to select side A or B, and press the ◀◀ or ▶▶ button repeatedly.



To change the program of each side

Press the EDIT/CHECK button to select side A or B, and press the ■ CLEAR button to clear the program of the selected side. Then program tracks again.

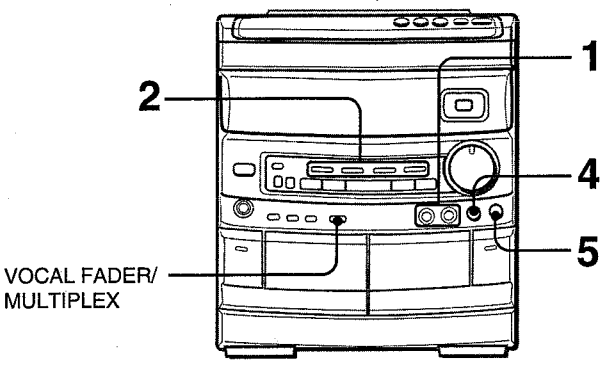
To clear the edit program

Press the ■ button twice so that "EDIT" disappears on the display.

NOTE

Recording is inhibited if the erasure prevention tab on either side of the tape is broken off.

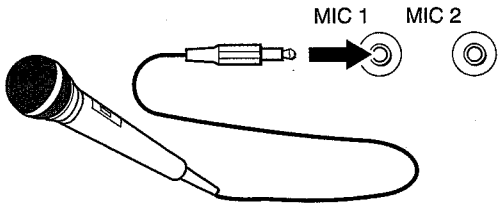
MICROPHONE MIXING



Two microphones (not supplied) can be connected to this unit, allowing you to sing along to music sources.
Use microphones with mini plugs (ø3.5 mm, 1/8 inch).

Before connecting a microphone
Set the MIC MIXING control to MIN.

***1* Connect your microphones to the MIC 1 and MIC 2 jacks.**



***2* Press one of the function buttons to select the source to be mixed, and play the source.**

***3* Adjust the volume and tone of the source.**

***4* Adjust the microphone volume with the MIC MIXING control.**
The volume of both microphones is adjusted simultaneously.

***5* Adjust the echo with the DIGITAL ECHO control.**

To record microphone sound mixed with source sound
Follow the procedure for recording from the sound source (see page 13).
The SYNC DUB button cannot be used for mixing recording.

When not using the microphones
Set the MIC MIXING and DIGITAL ECHO controls to MIN and remove the microphones from the MIC jacks.

NOTE

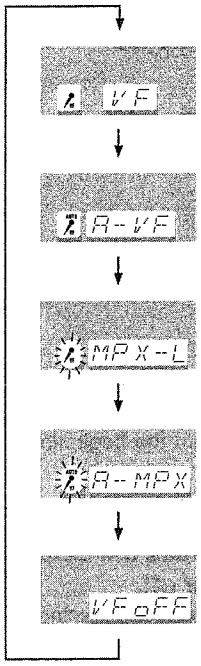
- When a connected microphone is used, the FRONT SURROUND system is automatically canceled.
- If a microphone is held too near the speakers, a howling sound may be produced. In this case, hold the microphone away from the speakers, or decrease the sound level using the MIC MIXING control.
- If sound through the microphone is extremely loud, it may be distorted. In this case, turn the MIC MIXING control toward MIN.

Recommended microphones
The use of unidirectional type microphones is recommended to prevent howling. Contact your local Aiwa dealer for details.

VOCAL FADER/MULTIPLEX FUNCTIONS

This unit can use discs or tapes as Karaoke sources.

Press the VOCAL FADER/MULTIPLEX button repeatedly to select the vocal fader or multiplex function.
Use the vocal fader function for ordinary discs or tapes.
Use the multiplex function for multi audio discs or tapes.
Each time the VOCAL FADER/MULTIPLEX button is pressed, one of these functions is selected cyclically.



Vocal Fader
The singer's voice becomes softer than the accompaniment.

Auto Vocal Fader*1
The singer's voice becomes softer only while there is audio input through a microphone.

Multiplex*2
The sound on the left (or right) channel is heard from both speakers, and the sound on the right (or left) channel is muted.

Auto Multiplex*1
The sound on the left (or right) channel is heard from both speakers, and the sound on the right channel is muted only while there is audio input through a microphone.

Cancel

***1* To change the time lag setting of the Auto Vocal Fader or Auto Multiplex function**
When Auto Vocal Fader or Auto Multiplex is selected, "A-VF" or "A-MPX" is displayed for 3 seconds and changes to the selected function name. After the selected function name is displayed, hold the VOCAL FADER/MULTIPLEX button down until the desired time lag setting, SLOW or FAST, is selected.

SLOW
Fade out of original singer's voice returns to the normal level if there is no audio input from the microphone within 2 seconds.

FAST
Fade out of original singer's voice returns to the normal level if there is no audio input from the microphone within 0.5 seconds.

When the power is turned off, the Auto vocal fader and Auto multiplex restore to SLOW.

***2* To change the muted channel of the Multiplex function**
When Multiplex is selected, "MPX-L" is displayed for 3 seconds and changes to selected function name. After the selected function name is displayed, hold the VOCAL FADER/MULTIPLEX button down until the channel to be output from both speakers, MPX-L or MPX-R, is selected.

MPX-L
The sound on the left channel is heard from both speakers and the sound on the right channel is muted.

MPX-R
The sound on the right channel is heard from both speakers and the sound on the left channel is muted.

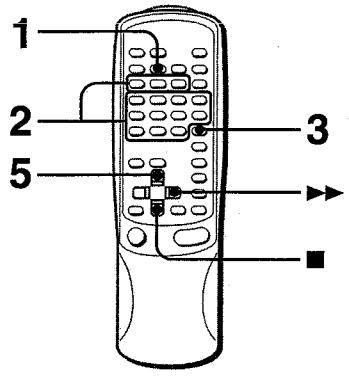
When the power is turned off, the Multiplex restores to MPX-L.

When using the remote control
Press the KARAOKE button.

NOTE

- The VOCAL FADER functions may not operate correctly with the following kinds of CDs or tapes.
  - Those with monaural sound
  - Those recorded with strong echoes
  - Those with the vocal part recorded on the right or left side of the sound width
- While the VOCAL FADER function is on, the sound is output as monaural.

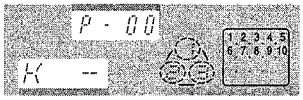
KARAOKE PROGRAMS



Before or during CD play, you can reserve up to 15 tracks to be played after the current track. Each reservation is cleared when it finishes playing.

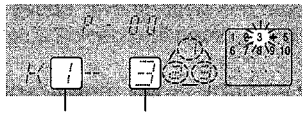
Use the remote control.

***1* Press the PRGM button once.**



***2* Press one of the DISC DIRECT PLAY buttons to select a disc and the numeric buttons to select a track.**

***3* Press the KARAOKE ENTER button.**

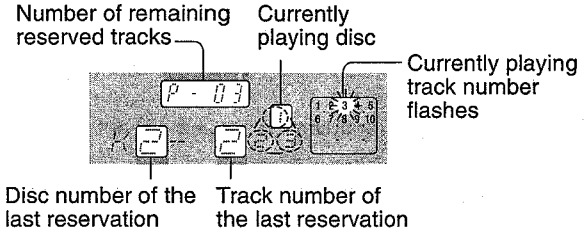


Reserved disc number Reserved track number

***4* Repeat steps 2 and 3 to reserve other tracks.**

***5* Press the ◀▶ button to start play.**

After a track is played, it is cleared from the program. Another track can be reserved in place of the cleared track.


Number of remaining reserved tracks
Currently playing disc
Currently playing track number flashes
Disc number of the last reservation
Track number of the last reservation

To add a reservation during play

Repeat steps 2 and 3.

To check the reserved tracks

Press the EDIT/CHECK button repeatedly. Each time it is pressed, the disc number and track number are displayed in the reserved order.

To stop play

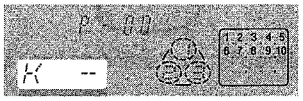
Press the ■ button. Press the ◀▶ button to start again.

To skip a track

Press the ▶▶ button. The skipped track is cleared from the program.

To clear all the reservations

Press the ▶▶ button repeatedly until "K -" is displayed.

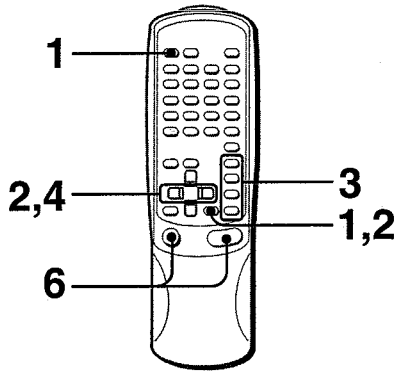


Press it once more to cancel the Karaoke programs. The display returns to that of CD play.

NOTE

- If the reserved track number does not exist on the selected disc, the unit stops playing and the display flashes.
  In this case, press the ▶▶ button to skip the error track. Then press the ◀▶ button to start play with the next reserved track.
- When the PRGM button is pressed repeatedly in step 1, PRGM is displayed and the unit enters CD program play mode (page 10).
  To cancel program play, press the ■ CLEAR button.

SETTING THE TIMER

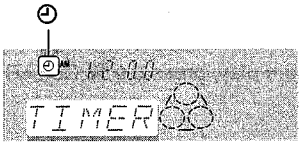


The unit can be turned on at a specified time every day with the built-in timer.

Preparation
Make sure the clock is set correctly. (See page 5.)

Use the remote control.

1 **Press the TIMER button on the remote control once to display ◴, and press the ▮▮ SET button within 4 seconds.**
◴ is displayed, and the hour flashes.



NOTE
If you do not press the ▮▮ SET button within 4 seconds, another operation may start.

2 **Designate the hour of the timer-on time by pressing the ⏮ DOWN or ⏭ UP button, and the ▮▮ SET button. Repeat to designate the minute of the timer-on time.**

After you designate the timer-on time, TIMER and one of the source names flash alternately on the display for 4 seconds.

3 **Within 4 seconds, press one of the function buttons to select a source.**
"TIMER" and the selected source name flash alternately for 4 seconds. At this time, the selected function button does not light up.
- If this step is not completed within 4 seconds, repeat from step 1.
- If the TUNER button is pressed, the band cannot be selected in this step.

4 **Within 4 seconds, select the duration for the timer-activated period with the ⏮ DOWN or ⏭ UP button.**

The duration for the timer-activated period can be set between 10 and 240 minutes in 10-minute steps.
- If this step is not completed within 4 seconds, repeat from step 1.

5 **Prepare the source.**
To listen to a CD, load the disc to be played first on tray 1.
To listen to a tape, insert the tape into deck 1 or 2.
To listen to the radio, tune in to a station.

6 **Press the POWER button to turn the unit off after adjusting the volume and tone.**
◴ remains on the display after the power is turned off (timer standby mode).

When the timer-on time is reached, the unit turns on and begins play with the selected source.

To check the specified time and source
Press the TIMER button on the remote control. The timer-on time and the selected source name are displayed for 4 seconds. However, the duration for the timer-activated period will not be displayed.

TIMER RECORDING

Timer recording is applicable for TUNER and VIDEO/AUX (with an external timer) sources only.

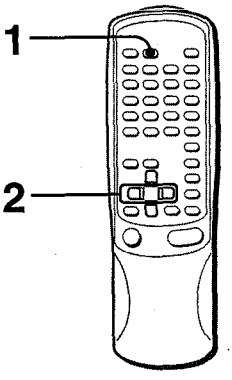
Press the TIMER button twice on the remote control so that ◴ REC appears on the display, and press the ▮▮ SET button within 4 seconds. Repeat the steps shown above from step 2 and insert the tape to be recorded into deck 2 after step 5.

To cancel timer standby mode temporarily
Press the TIMER button on the remote control so that ◴ or ◴ REC disappears on the display.
To restore the timer standby mode, press again to display ◴ or ◴ REC.

Using the unit while the timer is set
You can use the unit normally after setting the timer.
Before turning off the power, repeat step 5 to prepare the source, and adjust the volume and tone.

NOTE
- Timer playback and timer recording will not begin unless the power is turned off.
- Connected equipment cannot be turned on and off by the built-in timer of this unit. Use an external timer.

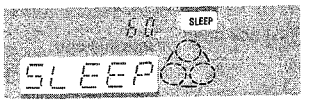
SETTING THE SLEEP TIMER



The unit can be turned off automatically at a specified time.

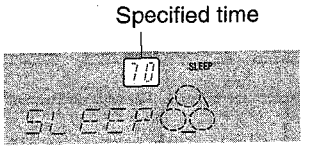
Use the remote control.

***1* Press the SLEEP button.**



***2* Within 4 seconds, press the ◀◀ or ▶▶ button to specify the time until the power is turned off.**
Each time the button is pressed, the time changes between 10 and 240 minutes in 10-minute steps.

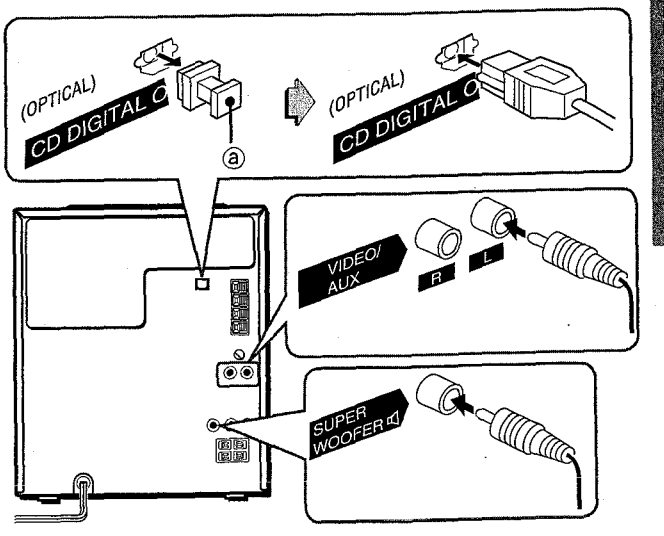
Specified time



To check the time remaining until the power is turned off
Press the SLEEP button once. The remaining time is displayed for 4 seconds.

To cancel the sleep timer
Press the SLEEP button twice so that "SLEEP" on the display disappears.

CONNECTING OPTIONAL EQUIPMENT



Refer to the operating instructions of the connected equipment for details.
- The connecting cords are not supplied. Obtain the necessary connecting cords.
- Consult your local Aiwa dealer for optional equipment.

En

VIDEO/AUX JACKS

This unit can input analog sound signals through these jacks.
Use a cable with RCA phono plugs to connect audio equipment (turntables, LD players, VCRs, TV, etc.).
Connect the red plug to the R jack, and the white plug to the L jack.

When connecting a turntable
Use an Aiwa turntable equipped with a built-in equalizer amplifier.

CD DIGITAL OUT (OPTICAL) JACK

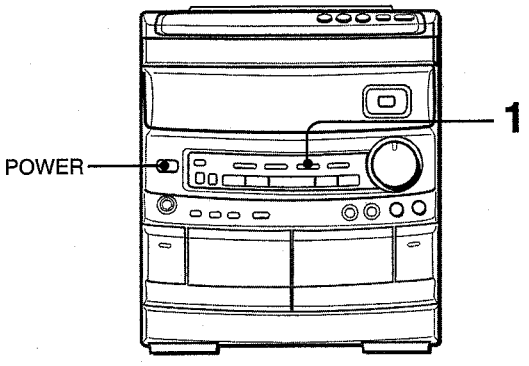
This unit can output CD digital sound signals through this jack.
Use an optical cable to connect digital audio equipment (digital amplifier, DAT deck, MD recorder, etc.).
Remove the dust cap ⓐ from the CD DIGITAL OUT (OPTICAL) jack. Then, connect an optical cable plug to the CD DIGITAL OUT (OPTICAL) jack.

When the CD DIGITAL OUT (OPTICAL) jack is not being used
Attach the supplied dust cap.

SUPER WOOFER JACK

Connect an optional powered sub woofer with a built-in-amplifier to the jack.

LISTENING TO EXTERNAL SOURCES



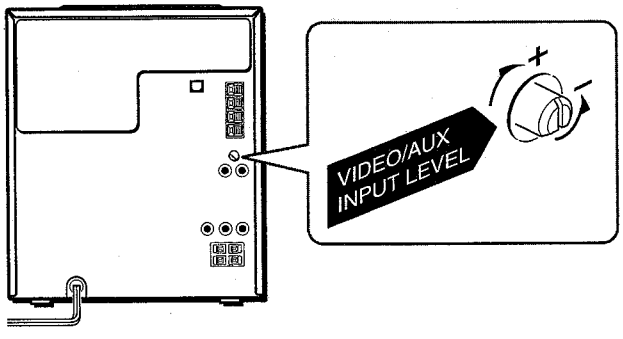
To play equipment connected to the VIDEO/AUX jacks, proceed as follows.

1 Press the VIDEO/AUX button.
VIDEO appears on the display.

2 Play the connected equipment.

To change a source name in the display
When the VIDEO/AUX button is pressed, VIDEO is displayed initially. It can be changed to AUX or TV.
With the power on, press the POWER button while pressing the VIDEO/AUX button.
Repeat the procedure to select one of the names.

To adjust the sound level of the external source
When the sound level of the external source is much higher or much lower than that of other function sources, adjust it as follows.
1 Press the VIDEO/AUX button and play the equipment.
2 Turn the VIDEO/AUX INPUT LEVEL control on the rear panel until the sound level becomes the same as that of other function sources.

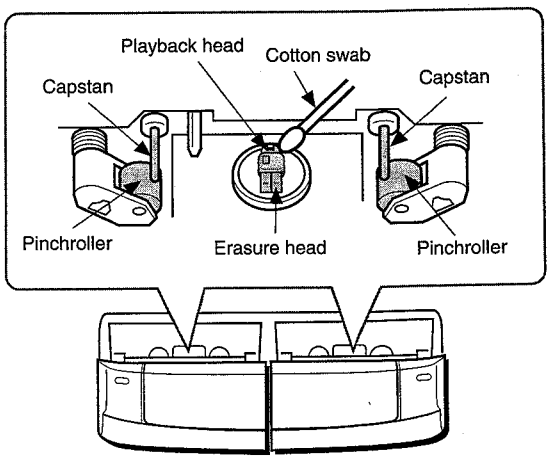


CARE AND MAINTENANCE

Occasional care and maintenance of the unit and the software are needed to optimize the performance of your unit.

To clean the cabinet
Use a soft and dry cloth.
If the surfaces are extremely dirty, use a soft cloth lightly moistened with mild detergent solution. Do not use strong solvents, such as alcohol, benzine or thinner as these could damage the finish of the unit.

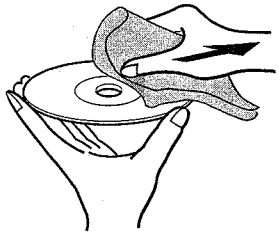
To clean the heads and tape paths
After every 10 hours of use, clean the heads and tape paths with a head cleaning cassette or cotton swab moistened with cleaning fluid or denatured alcohol. (These cleaning kits are commercially available.)
When cleaning with a cotton swab, wipe the recording/playback head, erasure head (deck 2 only), capstans, and pinchrollers.



After cleaning the heads and tape paths with a liquid head cleaning cassette or a moistened swab, wait until the cleaned parts are completely dry before inserting the tapes.

To demagnetize the heads
The heads may become magnetized after long-term use. This may narrow the output range of recorded tapes and increase noise. After 20 to 30 hours use, demagnetize the heads with any commercially available demagnetizer.

Care of discs
- When a disc becomes dirty, wipe the disc from the center out with a cleaning cloth.



- After playing a disc, store the disc in its case. Do not leave the disc in places that are hot or humid.

Care of tapes
- Store tapes in their cases after use.
- Do not leave tapes near magnets, motors, television sets, or any source of magnetism. This will downgrade the sound quality and cause noise.
- Do not expose tapes to direct sunlight, or leave them in a car parked in direct sunlight.

SPECIFICATIONS

Main unit CX-NV8000

FM tuner section

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity (IHF)	13.2 dBf
Antenna terminals	75 ohms (unbalanced)

AM tuner section

Tuning range	530 kHz to 1710 kHz (10 kHz step) 531 kHz to 1602 kHz (9 kHz step)
Usable sensitivity	350 µV/m
Antenna	Loop antenna

Amplifier section

Power output	60 watts per channel, Min. RMS at 6 ohms, from 50 Hz to 20 kHz, with no more than 1% Total Harmonic Distortion
Total harmonic distortion	0.1 % (30 W, 1 kHz, 6 ohms, DIN AUDIO)
Inputs	VIDEO/AUX: 150 mV (adjustable) MIC 1, MIC 2: 1 mV (10 kohms)
Outputs	SUPER WOOFER: 1.9 V SPEAKERS: accept speakers of 6 ohms or more SURROUND SPEAKERS: accept speakers of 16 ohms or more PHONES (stereo jack): accepts headphones of 32 ohms or more

Cassette deck section

Track format	4 tracks, 2 channels stereo
Frequency response	CrO_2 tape: 50 Hz – 16000 Hz Normal tape: 50 Hz – 15000 Hz
Signal-to-noise ratio	60 dB (Dolby B NR ON, CrO_2 tape peak level)
Recording system	AC bias
Heads	Deck 1: Playback head × 1 Deck 2: Recording/playback/erase head × 1

Compact disc player section

Laser	Semiconductor laser (λ = 780 nm)
D-A converter	1 bit dual
Signal-to-noise ratio	83 dB (1 kHz, 0 dB)
Harmonic distortion	0.05 % (1 kHz, 0 dB)
Wow and flutter	Unmeasurable

Speaker system SX-ANV8000

Cabinet type	4 way, bass reflex with surround speaker (magnetic sealed type)
Speakers	Woofer: 140 mm (5⅝ in.) cone type Mid-range: 80 mm (3¼ in.) cone type Tweeter: 50 mm (2 in.) cone type Super tweeter: 20 mm (13/16 in.) ceramic type Surround speaker: 80 mm (3¼ in.) cone type
Impedance	Front speaker: 6 ohms Surround speaker: 16 ohms
Output sound pressure level	87 dB/W/m
Dimensions (W × H × D)	235 × 310 × 270 mm (9⅜ × 12¼ × 10¾ in.)
Weight	4.3 kg (9 lbs 8 oz.)

General

Power requirements	120 V AC, 60 Hz
Power consumption	135 W
Dimensions of main unit (W × H × D)	260 × 307 × 349 mm (10¼ × 12⅛ × 13¾ in.)
Weight of main unit	7.8 kg (17 lbs 3 oz.)

Specifications and external appearance are subject to change without notice.

BBE SYSTEM

The word "BBE" and the "BBE symbol" are trademarks of BBE Sound, Inc.
Under license from BBE sound, Inc.

DOLBY NR

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol ⧈ are trademarks of Dolby Laboratories Licensing Corporation.

TROUBLESHOOTING GUIDE

If the unit fails to perform as described in these Operating Instructions, check the following guide.

GENERAL

There is no sound.
- Is the AC cord connected properly?
- Is there a bad connection? (→ page 3)
- There may be a short circuit in the speaker terminals.
  → Disconnect the AC cord, then correct the speaker connections.
- Was an incorrect function button pressed?

Sound is emitted from one speaker only.
- Is the other speaker disconnected?

The output sound is not stereo.
- Is the Karaoke function turned on? (→ page 17)

An erroneous display or a malfunction occurs.
→ Reset the unit as stated below.

TUNER SECTION

There is constant, wave-like static.
- Is the antenna connected properly? (→ page 3)
- Is the signal weak?
  → Connect an outdoor antenna.

The reception contains noise interferences or the sound is distorted.
- Is the system picking up external noise or multipath distortion?
  → Change the orientation of the antenna.
  → Move the unit away from other electrical appliances.

CASSETTE DECK SECTION

The tape does not run.
- Is deck 2 in pause mode? (→ page 11)

The sound is off-balance or not adequately high.
- Is the playback head dirty? (→ page 21)

Recording is not possible.
- Is the erasure prevention tab on the tape broken off? (→ page 12)
- Is the recording head dirty? (→ page 21)

Erasure is not possible.
- Is the erasure head dirty? (→ page 21)
- Is a metal tape being used?

High frequency sound is not emitted.
- Is a tape recorded without Dolby NR played back with the Dolby NR system operating? (→ page 11)
- Is the recording/playback head dirty? (→ page 21)

CD PLAYER SECTION

The CD player does not play.
- Is the disc correctly inserted? (→ page 9)
- Is the disc dirty? (→ page 21)
- Is the lens affected by condensation?
  → Wait approximately one hour and try again.

To reset

If an unusual condition occurs in the display window or the cassette decks, reset the unit as follows.

1 Press the POWER button to turn off the power.
2 Press the POWER button to turn the power back on while pressing the ■ CLEAR button. Everything stored in memory after purchase is canceled.

If the power cannot be turned off in step 1 because of a malfunction, reset by disconnecting the AC cord and repeat step 2.

PARTS INDEX

Instructions about each part on the main unit or remote control are indicated on the pages listed below.

(in alphabetic order)

Parts	Pages
CD	9
CD EDIT/CHECK (EDIT/CHECK)	9, 15, 16
■ CLEAR	8, 9, 11
CLOCK	5
DEMO	5
DIGITAL ECHO	17
◀▶ DIRECTION/PRESET	8, 9, 11
DISC CHANGE	9
DISC DIRECT PLAY	9
DOLBY NR	12
◀◀, I◀◀ DOWN	7, 9, 11
EDIT/CHECK (CD EDIT/CHECK)	9, 15, 16
FRONT SURROUND	7
GEQ	6
KARAOKE (VOCAL FADER/MULTIPLEX)	17
KARAOKE ENTER	18
MIC 1, MIC 2	17
MIC MIXING	17
▲ OPEN/CLOSE	9
PHONES	6
POWER	5
PRGM	10
RANDOM	10
● (●/Ó) REC/REC MUTE	13
REPEAT/MONO TUNER	7, 10
REV MODE (DECK 2)	11
▮▮ SET	8, 9
SLEEP	20
SYNC DUB NORM/HIGH	14
TAPE/DECK 1/2	11, 13
T-BASS	6
TIMER	19
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▶▶I, ▶▶ UP	7, 9, 11
VIDEO/AUX	21
VOCAL FADER/MULTIPLEX (KARAOKE)	17
VOLUME	6
0-9, +10	10

Principle of Aiwa's Front 180° Speaker System

Aiwa's Front 180° Speaker System provides excellent sound balance for true stereo reproduction from any listening angle.

In stereo sound reproductions systems up to now, the listening area where the optimal stereo effect is obtained has been extremely narrow. This is due to the following reasons.
As shown in Figure 2, a conventional stereo system has speakers on the front panel of the speaker system, pointing forward. It is designed for listening in a location directly in front of the front speaker panel.
In this case, as shown in Figure 2, a listener at point ⓐ, located on the center line between the right and left speakers, hears the voice of a singer coming from the center front. Instrumental sounds are distributed evenly between both speakers for an optimal stereo effect.
At point ⓑ, however, located off the center line between the speakers, the distance from the left speaker to the listener is greater than the distance from the right speaker. Sound from the left speaker appears to be faint, and sound from the right speaker appears to be loud. Sound is perceived as coming from the speaker with the greater volume, so that the singer's voice appears to shift toward the right speaker. The normally balanced instrumental sounds also appear to come primarily from the right speaker.
Moreover, since the directivity of speakers increases with higher frequencies, high-frequency sounds from the left speaker become even harder to hear, increasing the impression of imbalance. For these reasons, the listening area which provides even sound balance and the optimal stereo effect is limited to the narrow area shown in Figure 2-ⓐ.

To solve this problem, Aiwa has developed uni-directional speakers for this new speaker system featuring cardioid directivity for frequencies of 1 kHz or less. These speakers are pointed inward at angles of 45° (see Figure 1). Driven by left and right stereo sound signals, these speakers act to increase the width of the optimum listening area (see Figure 3). Because of their cardioid directivity and the 45° angle of their main speaker axis, they provide enhanced sound reproduction at point ⓑ in Figure 3. The left speaker is pointed toward the listener, and the right speaker is pointed away from the listener, so that the directivity of the speakers compensates for the differences in perceived volume caused by the differences in distance to the listener. Therefore, the sound of a singer's voice is perceived as coming from a point midway between the speakers, and instrumental sounds are distributed evenly.

Figure 1 **Front 180° speaker system**

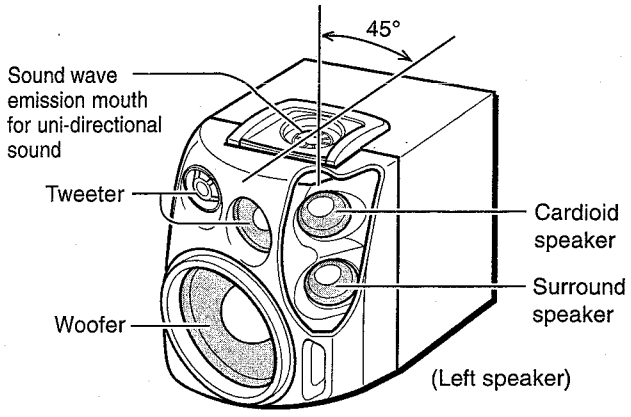
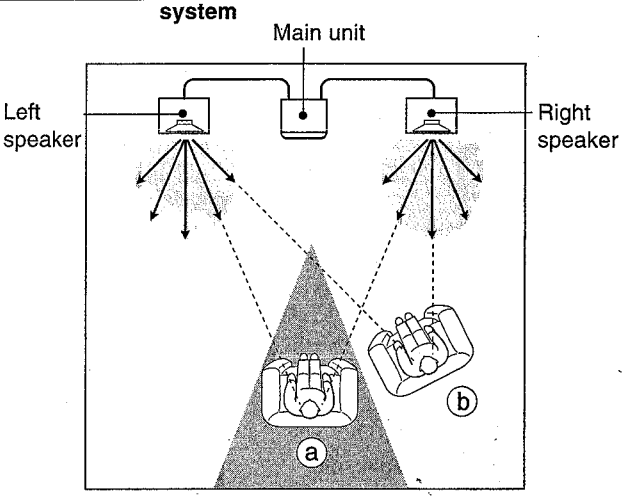


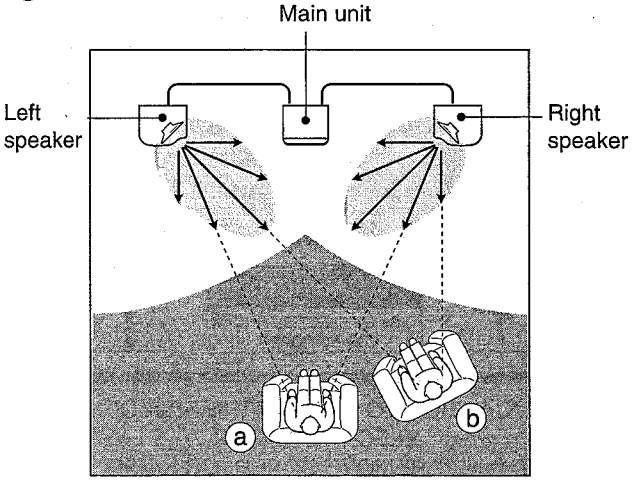
Figure 2 **Stereo effect with a conventional speaker system**



ⓐ Center listening point: Balanced sound heard from left and right speakers
ⓑ Off-center listening point: Right speaker sounds louder than left speaker
→: Sound pressure level
▒: Stereo listening area

Figure 3 **Stereo effect with Aiwa Front 180° speaker system**

True stereo sound can be heard at point ⓑ as well as point ⓐ.



→: Sound pressure level
▒: Stereo listening area of new speakers